

Abstract Of The Disclosure

Power supply devices for vehicle electrical systems in particular, including two voltage systems, i.e., vehicle electrical systems, each having its own generator. The first generator and the battery belong to the same voltage system, and the second 5 generator belongs to the second voltage system. If the two voltage systems were decoupled, the second generator would not have the excitation current required for starting, so means are consequently provided here to connect the second generator to a charge storage device after actuation of the ignition switch, thereby generating 10 an excitation current; this charge storage device may also be the battery of the first voltage system and the connection is kept conductive until the second generator starts and is generating an output voltage.